POLETAYEV, A.F., kand.tekhn.nauk

Traction tests for tractors. Trakt.1 sel'khozmash. no.6:4-5
Je '59. (MIRA 12:9)

(Tractors-Testing)

KOLOBOV, G.G., insh.; POLETAYSV, A.F., kand.tekhn.nauk

Interaction between tractor tires and soil. Trakt. i sel'khosmash. 30 no.2:9-11 F '60. (MIRA 13:5)

(Tractors—Tires)

是他的事情,我们就是这个人的事情,我们还是让我们们的一个人的人的一个人的人,我们就是这个人的人的人的,我们们是这个人,他们是这种的人,我们们是我们就是我们就是我 第一个人,我们就是我们是我们的人,我们就是我们是我们的一个人,我们就是我们的人的人,我们就是我们的人,我们就是我们就是我们就是我们就是我们的人,我们就是我们就会

GORKIN, V.Z.; SEVERINA, I.S.; POLETAYEV, A.I.

Effect of dimethylhydrazine and tetramethyltetrazene on the activity of mitochondrial monoamine oxidase. Zhur.VKHO 9 no.1:115-116 (MIRA 17:3)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR.

	100	new tand d	which	Sabject much nev machine; increase	Mokh	dd h Burgg 101"	JSSR/
	•	new technology, and dislikes hav	2 1 2		Mekh Trud	"Let Us Make Bo Karagandinskiy 4 pp	USSR/Mining Equipm Mining Method
		F. 2	nont at or	t coal field has been few mechanized equipment ery building factories. se productivity of the being used to full adv	-	ike E nekiy	
	-	y, and have no	cause this	field hamized (liding filling filling filling)	শ্বিদ্র হা	Better Ly Coal	Equipment Method
		70 L	this	field has been fortunate nanized equipment from validing factories. Its usuluctivity of the mines. I used to full advantage as	Tyazh Rabot"		bnt
		suggests	lack o	s been fortunated in the state of the mines. Its full advantage	5	Use of Equipment in the Field!" A. N. Poletayev,	
	·	te t	Pa	4 6 6 7	No 9	Equ.	
å		that persona 1 fulfillment		ortunate in refrom warious from warious Its use will ines. Howeve		Equipment A. N. Po	
		personal Illment :	interest		•	nt in	
	22	, , ,	28 20 20 20 20 20 20 20 20 20 20 20 20 20	in receiving arious coal arious coal Breatl Breatl Breatl it		in the Letayev	
	28/497108	likes of the	s reasons n using 28/49T108	coal coal great			Sep
	00	* 5 3	108	ing tt		Ea gr ,	8

POLETAYEV, A. P.

Foletayev, A. P.

"The photoconductivity and volt photoeffect in mercuric iodide." State Order of Lenin Optical Inst imeni S. I. Vavilov. Moscow, 1956. (Dissertation For the Degree of Candidate in Physicomathematical Sciences.)

Knizhnaya <u>letopis!</u> No 21, 1956. **N**oscow.

POLETAYEV, A.F. USSR/Crystals.

B-5

Abs Jour

: Referat Zhur - Khimiya, No 6, 1957, 18324

Author

: A.P. Poletayev.

Inst

: Vologda Pedagoguical Institute.

Title

Intrinsic Photoeffect in Mercury Iodide.

Orig Pub

: Uch. zap. Vologod. ped. in-ta, 1956, 17, 85-93

Abstract

: The intrinsic photoeffect (PE) in polycrystalline layers of red HgI₂ in the temperature interval from -140 to +100° and in the spectral band from 400 to 700 m_M was measured. Two bands of PE were disclosed: the fundamental one in the region of the proper UV absorption and an additional one at about 580 m_M adjoining the long wave end of the fundamental band. Electrons are the photocurrent carriers in the fundamental band, and in the additional band holes are the carriers. If an admixture of 0.01 to 0.1 at. % of Hg was introduced, PE decreases along all the spectrum and vanishes completely in the additional band. If I₂

Card 1/2

- 78 -

SOV/81-59-5-14417

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 5, p 31 (USSR)

AUTHOR:

Poletayev, A.P.

TITLE:

Photoconductivity and Photo-emf in Mercury Todide

PERIODICAL: Uch. zap. Vologodsk. gos. ped. in-ta, 1958, Vol 23, pp 151 - 170

ABSTRACT:

A study is made of the laws of photoconductivity and photo-emf in the primary and additional bands of photoelectric sensitivity of ${\rm HgI}_2$. ${\rm HgI}_2$ -photoelements are prepared. The characteristic features of the photo-emf of these elements are determined. It is shown that in the generation of the photo-emf in HgI, two simultaneously-occurring processes take part, as a result of which emf of opposite signs are originated. It has been established that the photoconductivity and the photo-emf in the additional band of sensitivity in HgI2 are due to the iodine admixture.

Author's résumé

Card 1/1

POLE	TAYEV, A.S.			 .	
	Experience : Feder. 6 no.	in the control of : .10:11-13 0 '62. (COMMUNICABLE D	infectious disease ISEASESPREVENTION	es. Zdrav.Kos. (MIRA 16:4) DN)	
	•				

- 1. POLETAYEV A.S Eng.
- 2. USSR (600)
- 4. Tsimylansk Hydroelectric Power Station-Concrete Construction
- 7. Experience of operating concrete plants at the construction site of the Tsimlyansk hydroelectric power development, Mekh.stroi. 9 no.12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

POLETAYEV, A.S., zasluzhennyy vrach RSFSR, glavnyy vrach; KHOKHRUNOVA, M.N.

NEW STATES OF THE SECOND STATES OF THE SECOND SECON

Experiment of releasing patients with scarlet fever on the 21st day after the onset of the disease. Vop.pediat. 21 no.3:10-12 My-Je '53.

(MLRA 6:7)

1. Detskaya infektsionnaya bol'nitsa g. Yaroslavlya.

(Scarlet fever)

POLETATEV, A.S., inzhener.

Experience with operating concrete plants of periodic activity.

Mekh.trud.rab.13 no.7:8-14 Jl '56. (MIRA 9:9)

(Concrete plants)

FULEIATEU HS.

SCARLET FEVER

"Experience with Early Discharged Scarlatinal Reconvalescents", by A.S. Poletayev, Voprosy Okhrany Materinstva i Detstva, No 4, July-August 1957, pp 37-40.

Since order No 211 of the Ministry of Health of the USSR has been issued, the Yaroslavkiya Municipal Children's Infection Hospital has re-examined all conditions of hospitalization of the scarlatinal patients; the above order authorises the discharge of the patients in question after the seventh day from the beginning of the disease. The author reports on 1717 scarlatinal patients who were discharged from hospital in the period from 1 April to 31 December 1955. His observations given in detail.

The article concludes that the experience with early discharged scarlatinal patients - a matter which not only affects the city of Yaroslavl' alone but also its surroundings and rural communities - has proven itself as "completely fortunate".

Card 1/1

- 49 -

POLETAYEV, A. S.: Master Med Sci (diss) -- "The course of scarlatine in recent years in connection with the new conditions of hospitalization and treatment". Yaroslavl', 1959. 14 pp (Inst of Pediatrics of the Acad Med Sci USSR), 220 copies (KL, No 17, 1959, 111)

```
IL'INA, V.N.; POLETAYEV, A.S.; USHAKOV, G.K.; KHOKHIOV, L.K.; GAIKINA, Z.I.:

SALYAYEV, V.E.; STODMARCHUK, A.A.

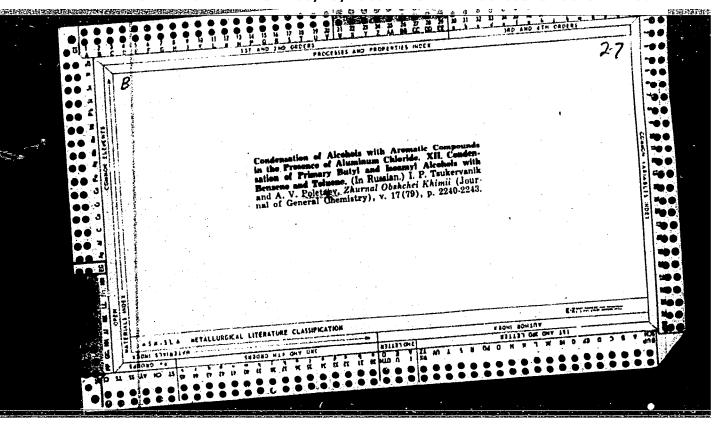
Clinical aspects and psychopathology of Q fever. Zhur. nevr. i psikh
59 no.3:295-303 '59. (MIRA 12:4)

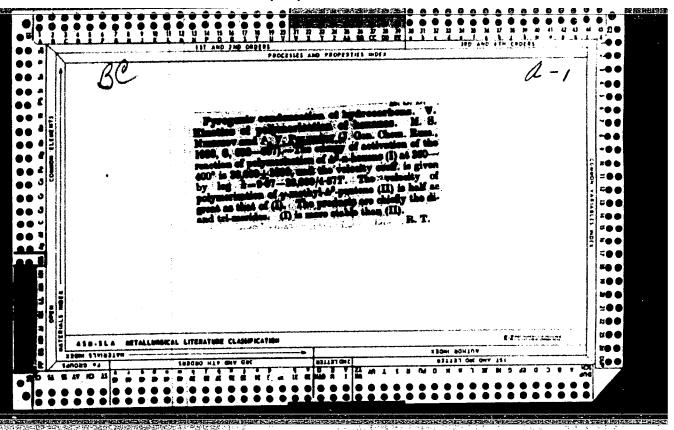
1. Kafedry psikhiatrii (zav. - dots. G.K. Ushakov), infektsionnykh
bolezney (zav. - prof. A.I. Reznikov), farmakologii (ispolnyayushchiy
obyazannosti zaveduyushchego - kand. med. nauk V.N. Salyayev) Yaroslav-
skogo meditainskogo instituta i Gorodskaya klinicheskaya infektsionnaya
bol'nitsa (glavnyy vrach A.S. Poletayev).

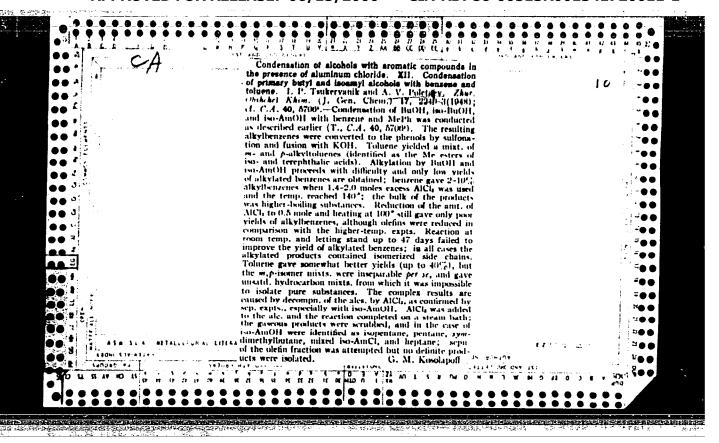
(Q FEVER, compl.

ment.-disord. (Rus))

(MENTAL DISORMERS, et iol. & pathogen.
```







POLETAYEV, A.P.; BONDAR', V.I., inzh.

Yenakiyevo Metallurgical Plant. Metallurg 9 no.11:17 N 164.
(MIRA 18:2)

1. Starshiy master Yenakiyevskogo metallurgicheskogo zavod (for Poletayev). 2. Byuro tekhnicheskoy informatsii Yenakiyevskogo metallurgicheskogo zavoda (for Bondar!).

IVANOV, A.G., inzh.; POLETAYEV, A.V., inzh.

Study of aerodynamics and combustion of anthracite culm in a furnace with counter-parallel flow. Teploenergetika 10 no.6:29-33 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut. (Furnaces) (Boilers) (Combustion)

L 10840-67

ACC NR. AR6032060

SOURCE CODE: UR/0271/66/000/007/B013/B013

2

AUTHOR: Poletayev, A. S.; Popov, Yu. A.

TITLE: Current shaper and reading amplifier for a high-speed storage system

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 7B93

REF SOURCE: Sb. Poluprovodnik, elementy v vychisl. tekhn. M., 1965, 61-66

TOPIC TAGS: storage, storage system, high speed storage system, reading amplifier

ABSTRACT: A recording current shaper is described. The shaper has a 5-cascade rheostatic amplifier with high-frequency transistor, the latter 3 cascades included in the circuit with the common collector to operate the total load and the first 2 cascades to serve for shaping the amplitude and pulse length using RC-coupling elements. The maximum operational frequency of the amplifier is 5 Mc, the amplitude of the input pulses is 6 v, and the amplitude of output current is 0.7 amp. The duration of output pulses is 100 nanoseconds, the front is 40 nanoseconds,

Card 1/2

UDC: 681, 142, 65

"APPROVED FOR RELEASE: 06/15/2000 CIA

CIA-RDP86-00513R001341720011-1

L 10840-67

AR6032060

0

while the delay, with respect to the input pulses, is 15 to 20 nanoseconds. The load inductance is 0.7 cmh. The reading amplifier is made with high-frequency transistors, which are incorporated in the circuit with the general emitter having low collector load resistors. The input signal is amplified by a linear amplifier and enters two valves controlled by gating pulses. The signal of one valve is used for rerecording, while the signal of the other valve is amplified by the terminal amplifier for dispensing information from the storage system. With a change in the input signal from 60 to 160 mv, the amplitude of the output signal remains constant and equals 8 v, the duration is 70 nanoseconds, and the front is 70 nanoseconds (at 200 ohm load resistance and 130 cm of capacitance). The pulse delay in the amplifier is 30 to 40 nanoseconds. [Translation of abstract]

SUB CODE: 09/

Card 2/2 /mi

BONDARENKO, S.S.; KASHANSKIY, B.R.; KAPUSTIN, V.Ya.; KRAMARENKO, P.T.; LOVI, A.A.; MIKHEYEV, I.V.; POLETAYEV, A.S.; SELEZNEV, V.I; SUDAKOV, S.V., polkovnik, red.; VIL CHINSKIY, I.K., red.

[Instruction in firing at night from small arms and grenade launchers] Obuchenie strel'be noch'iu iz strelkovogo oruzhiia i granatometa. Moskva, Voenizdat, 1964. 214 p. (MIRA 18:4)

ZHUKOV, I.T., inch.; FOLETAYEV, A.V., inch. [deceased]

Performance of round turbulent curners in the formace of the TF-237-2 boiler operating on anthracite cuim, Fieb. std., 36 no.11:20-25 N '65. (NIRA 18:10)

POLETAYEV, A.V.; ARRUTSKAYA, Ye.G.
Using surface-active substances in treating local mineral materials

with liquid bitumens. Avt.dor. 25 no.11:9-10 N '62.

(MIRA 15:12)

(Road materials)

POLETAŽEV, A. V.

"Etude des reactions pyrogenetiques de condensation des hydracarbures. Communication V^{π} . Nemtzow, M. S. et <u>Poletaiew, A. W.</u> (p. 892)

SO: Journal of General Chemistry (Zhurnal ObshcheijKhimii) 1936, Vol. 6, No. 6

1. 38781-66 = EWI(1)/EWP(1)

ACC NR: AP6024816

SOURCE CODE: UR/0096/66/000/008/0013/0017

AUTHOR: Zhukov, I. T. (Engineer); Poletayev, A. V. (Engineer; deceased)

PB

ORG: All-Union Institute of Heat Technology (Vsesoyuznyy teplotekhnicheskiy institut)

TITLE: The effect of the exit port design on the aerodynamics of a jet discharging

from a circular turbulent burner

SOURCE: Teploenergetika, no. 8, 1966, 13-17

TOPIC TAGS: gas burner, flame, combustion burner

ABSTRACT: An experimental study was made of the <u>aerodynamics of</u> turbulent tubular gas burners. Velocity and dynamic pressure profiles were determined for various geometries. It was found that the reliability of the burner is optimum when the outer tube is conical with an opening angle of 15—20°. The inner tube of the burner, however, should be cylindrical, since conical geometries lower the reliability. Burnout of the inner tube lowers the opening angle, and thus deteriorates the conditions for ignition. In the experiments, two regimes were observed: either the flow from the burner was closed with an internal recirculation zone of a different size, or the flow was open and moved along the wall on which the burner was located. The transition between those regimes took place in jumps. Orig. art. has: 5 figures.[PV]

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 003

Card 1/1

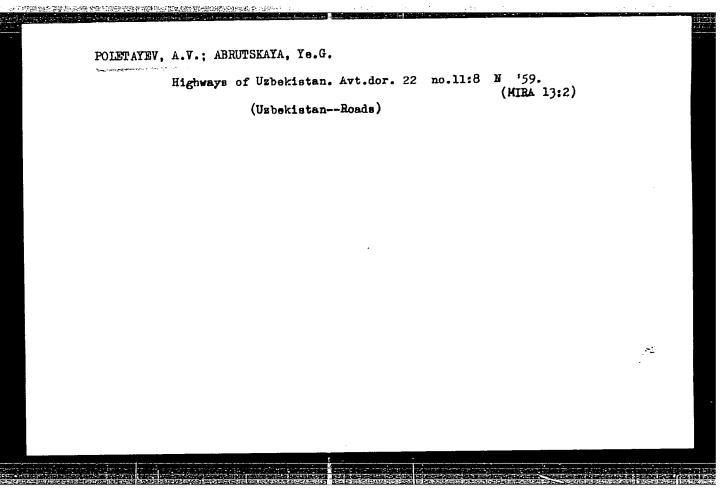
UDC: 533.6.683.87.001.5

The same

LEREDEV, A.E.; POLETAYEV, A.V.

Devices for burning powder-like fuel, Ved. i san. tekh. no.5:29-30 Ag '55. (NIBA 9:2)

1.Veesoyuznyy teplotekhnicheskiy institut. (Boilers)



Petroleum-gravel pavements in Uzbekistan. Avt.dor. 23 no.3:
11-12 Mr '60. (MIRA 13:6)

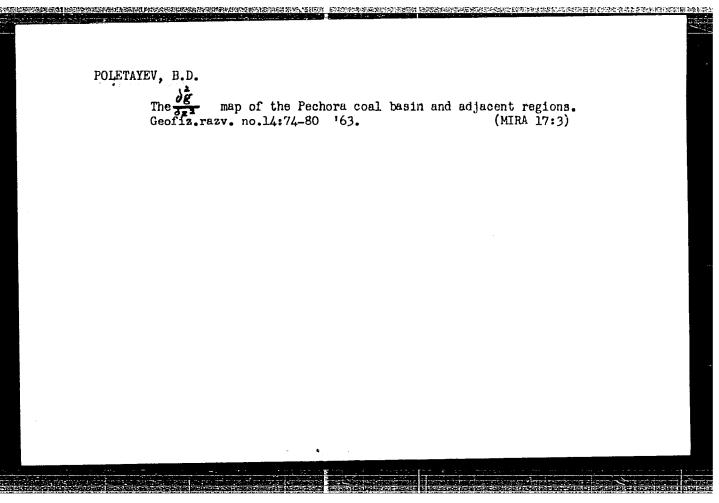
(Uzbekistan--Pavements, Bituminous)

MOTYLEV, Yu.L., kend. tekhn. nauk; ZALESSKIY, Ye.P., prof.; KALYUZHNYY, I.S., kand. sel'khoz. nauk; AZIZOV, A.A., mlad. nauchnyy sotr.; POLETAYEV, A.V., kand. khim. nauk; ABRUTSKAYA, Ye.G., mlad. nauchnyy sotr. Prinimali uchastiye: BUTLITSKIY, Yu.V., mlad. nauchnyy sotr.; FEDOSEYEVA, T.I., mlad. nauchnyy sotr.; BIRUL', A.K., prof., doktor tekhn. nauk, retsenzent; ZVERINSKIY, G.I., inzh., retsenzent; KOVALEV, T.G., inzh., retsenzent; BASIN, M.M., inzh., retsenzent; DEBERDEYEV, B.S., red.; DONSKAYA, G.D., tekhn. red.

[Stability of earth roadbed and road mats in regions with artificial irrigation] Ustoichivost' zemlianogo polotna i dorozhnykh odezhd v raionakh iskusstvennogo orosheniia. [By] IU.L.Motylev i dr. Moskva, Nauchno-tekhn.izd-vo M-va avtoropil'nogo uransp.i shos. dorog RSFSR, 1961. 178 p. (MIRA 15:2)

(Uzbekistan-Road construction) (Uzbekistan--Irrigation)

fol E	1 AYE	• / • ·	_	***************************************				
		:. *		ŧ	•			
			j j	a g E 5	THE COLUMN		•	
			* ************************************	LELLY A	Tronses mis Tronsess, Tron	Eaved iment by Metallurgi v b Technical F Metardal. Special Eds.; Tech. Eds.		1
	•	•	. !	Rinteleyn, V. [Ingineer]. Rinteleyn, V. [Ingineer]. Rinteleyn, V. [Manager of Con- Curvement in the Design of Con- Culantific Library of Con-	Truesses. Toresses. Truesses. Truesses. Arreloped and implement Desproduentline, of the (Scientific and Schmidt discuss techniques in all ours-barri processes Name of Bessens Seel			
1					book is book con nd implem hinsk, of 1 and Techs iniques in thingues in thingues in thingues in	oprosite		
				7 2 7	s intend ontains smarted f the Na f the Na in line seases, srl, In	bago, libos Dibis		
				KATYMED, A. [Engineer]. Zeat Treatment of Rails Rixtiskyn, L. [Engineer]. A New Steel for Rollin A Manager of Heat-Engineering Labor Convenient in the Design of Meruperator Soating is "CLAME: Library of Concesses (Trans. 1)	recess: This book is intended for technical processes; Wald: The book contains 9 articles dealing developed and implemented by members at the j deproducerhinal, of the Number-cathniches sto (Scientific and Renderal Scotety for Ferroru discuss cechniques in limesone tibring, bla- ed oner-bearth processes, inspot colling, and cutter, M. [Frgineer]. Improving the quality of Sessener Steel	WASE I DOOK KER. Level isent Descritionings, Desproduceritions, Mitallargi v bor'es as tethnicheskiy progre Redmical Progress) (Moscow) Lid-vo Widd printed. Progress, Descriptor, F.M. Fortlor Tech. Ed.; 19. V. Kochinev, F.M. Fortlor	•	
		j ·		Stael Stael	br technical tec	T DOOR		
			ي ر	20 E E	dell dell at th fig, b ing, b	EXPLO Minsk Wridn Wridn		
			1	Karymin, A. [Engineer]. East Treakment of Rails Rikitekkyn, Y. [Engineer]. A New Steel for Rolling fin A language of Manager of Beat-Engineering Laboratory]. Conversant in the Design of Necuperator Souking Fits *CLARES: Library of Converse (work at)	nded for technical presental 1 s articles dealing with tech d by methers at the Flatt izen function-rekinisheshoys chicke all Society for Ferrous stetllur, seroors tillning, blatt-furners perconage the quality of Rails	MAGE I BOOK EXPLOIMATION Desprodus riningk hintcheskly progress (Metalesor) ind-wo Widdle Froit; scor) F.M. Wortkors, and in		
				est Treabout of Rails A New Sizel for Rolling fin Plats feat-Engineering Laboratory), T Memperator Souting Fits The Company of the Company	personnal interested in metal swith technical improvements Flant imed Describinatis, sys otherhestro charmon metal su Metallurgo). Individual sui-furmen charges, intensiti improvements in radi products y of Rails	TRACE I NOOK EXPLOIMATION BOY/A380 Level isent Destrinsings, Desprodustrinsk Realings; w bor'tes as tehtnicheskiy progress (Mctalingsists in the Pight for Redmicel Progress) (Moscow) Lid-vo wrades Profitats 1999 96 p. 3,000 copies pristed. Profit Rai: Te. F. Eccliders, F.M. Forthors, and I.B. Tolyak; Ed.: E.A. Mahan Tech. Ed.: S.D. Shadring.		İ
	*			ř	Charge of the same	ece in 959 5		
				•	ted in threat threat arroy (ndivi- s, in- rail);	56 p. j		
			#B		in metal oversonts skiy, syidal metali vidual metali intensir	Tight :		
· -	•		\$ \$	្ ម ភេស	Triess: This book is intended for technical personal interested in metallurgical processes. TOTALIZ: The book contains 9 articles dealing with technical improvements described and implemented by methers at the Flant isnel Describinsky, the Desproductathinsky of the Nancho-cabinchesisys obliches ero charge several existing and technical Society for Ferrous Metallurgy). Individual articles discuss techniques in limetone thints, blast-furnace charges, itransitiention of open-bearth processes, ingot rolling, and improvements in real production. The of Bessear Sceel. Exproving the Quality of Rails.	for copies Makarovi		
	٠		7.	~ ~ . 0	-	3		Ì
	٠,	• •	•	• • •		in the second		



POLETAYEV, B.D.

Propsects of gravity prospecting in the Pechramal basin.

Izv. vys. ucheb. zav.; geol. i razv. 7 no.4:128-130 Ap '64.

(MIRA 18:3)

1. Gosudarstvennyy geofizicheskiy trest po razvedke nefti, gaza i uglya.

POLETAYEV, B.D.

Checking the results of gravity prospecting in the Pechora coal basin by drilling. Izv. vys. ucheb. Eav.; geol. i razv. 7 no.7: 122-123 Jl '64 (MIRA 18:2)

1. Gosudarstvennyy geofizicheskiy trest po razvedke nefti, gaza i uglya.

POLITAYEV, B.D.; BOSYKH, Yu.A.

Results and potentials of gravimetry in prospecting in the coal fields of th Pechora Basin. Geofiz. razv. no. 15: 80-86 '64. (MIRA 17:7)

PREOBRAZHENSKIY, V.A.; POLETAYEV, B.D.

Using barometric leveling in the tundra during the winter.

Geofiz. razv. no. 15:156-161 '64. (MIRA 17:7)

POLETAYEV, B.D.; BOSYKH, Yu.A.

Geological effectiveness of gravity prospecting in the Pechora
Basin and adjacent regions. Geofiz.razved. no.10:34-44 '62.

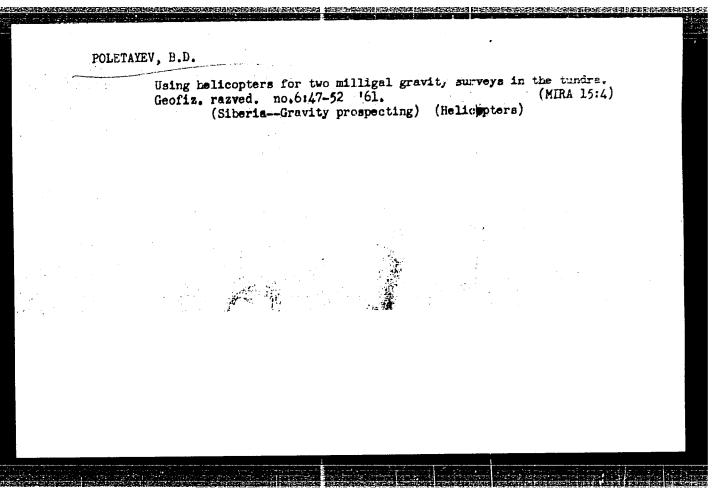
(Pechora Basin-Gravity prospecting)

(Pechora Basin-Gravity prospecting)

POLETAYMY, B. D.

"Determination of the Density of Minerals by Observations With the Gravimeter in Shafts," Razvedka i Okhrana Medr. No. 2, pp 32-33, 1954

so: W-31529, 2 Sep 55



ROZENGART, Yu.I., kand.tekhn.nauk, dotsent; TAYTS, N.Yu., doktor tekhn.nauk, prof.; SPIVAK, E.I. inzh.; SOROKIN, A.A., inzh.; POLETAYEV, B.L., kand.tekhn.nauk; KLIMENKO, G.P., inzh.; KOROTAYEV, M.H., inzh.; STRUCHENEVSKIY, B.B., inzh.

Investigating the performance of holding furnaces for nonoxidizing heating. Stal' 23 no.9:848-853 S '63. (MIRA 16:10)

1. Dnepropetrovskiy metallurgicheskiy institut, TSentroenergochermet, savod im. Dzerzhinskogo i Gosudarstvennyy soyuznyy institut po proyektirovaniyu agregatov staleliteynogo i prokatnogo proizvodstva dlya chernoy metallurgii.

POLETAYEV, B.L., inshener; SOROKIE, A.A., inshener.

The use of a pretective refractory wall in front of meedle—shaped recuperators. Stal' 15 me.10:945-947 0155.(MERA 9:1)

1.Zaved imeni Dzershinskege.
(Heat regeneration)(Imepredzerzkinsk--Metallurgical plants)

SOROKIN, A.A., inzhener; POLETAYEV, B.L.

The perfermance of recuperator pits without filling of small coke.
Stal' 16 no.3:247-252 Mr '56. (MERA 9:7)

1.Zaved imeni Dzerzhinskege.
(Dnepredzerzhinsk--Heat regenerators)

Tayts, N. Yu. Doctor of Technical Science, 133-58-5-30/31 AUTHORS:

Rozengart, Yu. I., Candidate of Technical Science,

Sorokin, A. A., Engineer, and Poletayev, B. L., Candidate

of Technical Science

High Temperature Preheating of Air in Radiation TITLE:

Recuperators (Vysokotemperaturnyy podogrev vozdukha

v radiatsionnykh rekuperatorakh)

PERIODICAL: Stal', 1958, Nr 5, pp 472-479 (USSR)

ABSTRACT: The object of the paper is to give a theoretical analysis of heat exchange conditions in radiation recuperators in

order to develop a method for their design calculations

and the choice of optimal schemes of radiation

recuperators for soaking pits. Theoretical equations for the determination of heat exchange in recuperators are given. On the basis of the equations four different schemes of radiation recuperators are compared:

1 - direct current recuperator with heating from two sides;

2 - counter-current recuperator with heating from two sides;

3 - direct current recuperator with heating on one side and 4 - counter-current recuperator with heating on one side.

It is concluded that for soaking pits the first scheme

Card 1/2

这种是在社会是 在建国的经济中可能的计划,但也是就是建筑的建筑和建筑的的规则,这一个大学的人,不是是这种的是是是是是是是是是是是是是是是是是是是是是是是是是是

133-58-5-30/31 High Temperature Preheating of Air in Radiation Recuperators

is the most advantageous. An experimental recuperator (Fig.7) was designed and its operation investigated. The results of one heating with cold charge are shown in Fig.8. The preheating of air reached 650°C and the coefficient of heat transfer 45 K cal/m²hr°C. The resistance of the whole air duct at 2500 m³/hr was about 450 mm H₂O. Some deficiencies in the operation were noted: the destruction of welded joints and non-uniform heating of the surface of the tubes due to a non-uniform distribution of air. A second recuperator is being designed in which the above deficiencies will be removed.

There are 2 tables and 9 figures.

ASSOCIATIONS: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute), Zavod im. Dzerzhinskogo (Plant imeni Dzerzhinskiy)

Card 2/2

KRAVTSOV, A. F.; ALEKSEYEV, B. G.; POLETAYEV, B. L.; SOROKIN, A. A.

Pulse regulation of temperature in soaking pits. Izv. vys.ucheb. zav; chern.met.7 no. 5:170-176 '64. (MIRA 17:5)

 Denpropetrovskiy metallurgicheskiy institut i Metallurgicheskiy zavod im. Dzerzhinskogo.

ROZENGART, Yu.I., dotsent, kand. tekhn. nauk; TAYTS, N.Yu., prof., doktor tekhn. nauk; SOROKIN, A.A., inzh.; POLETAYEV, B.L., kand. tekhn. nauk

Expansion of research on the nonscale heating of metal at the Dzerzhinskii Plant. Stal 24 no.5:462-466 My 64. (MIRA 17:12)

1. Dnepropetrovskiy metallurgicheskiy institut i Dneprovskiy metallurgicheskiy zavod im. Dzerzhinskogo.

ROZENGART, Yu.I.; TAYTS, N.Yu.; SPIVAK, E.I.; SOROKIN, A.A.; POLETAYEV, B.L.

Effect of sulfur on metal loss during heating. Izv. vys. ucheb. zav.; chern. met. 7 no.2:177-182 64. (MIRA 17:3)

1. Dnepropetrovskiy metallurgicheskiy institut, TSentroenergometallurgprom i zavod im. F.E. Dzerzhinskogo.

18(3) SOV/163-59-1-17/50 Rozengart, Yu. I., Tayts, N. Yu., AUTHORS: Sorokin, A. A., Poletayev, B. L. Investigation of the Performance of a Slit Radiation Regenerator TITLE: (Issledovaniye raboty shchelevogo radiatsionnogo rekuperatora) Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 1, PERIODICAL: pp 80-84 (USSR) At present slit radiation regenerators are used to a large ABSTRACT: extent. They are composed of two cylinders. The combustion gases pass through the inside cylinder, the air streams through the annular duct between the cylinders. The Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Institute of Metallurgy) in collaboration with the metallurgicheskiy zavod im. Dzerzhinskogo (Metallurgical Plant imeni Dzerzhinskiy) designed a slit radiation regenerator for soaking pits. This type of regenerator differs from others described in publications by the feature of being provided with a bilateral heating of the walls. This is accomplished by a flue gas duct in the inside tube of the regenerator and between the outside tube and the regeneration chamber. The theoretical investigation (Ref 1) showed that by this method Card 1/3

Investigation of the Performance of a Slit Radiation SOV/163-59-1-17/50 Regenerator

of heating the efficiency of the regenerator is considerably increased. A test unit was erected in the above-mentioned works for the purpose of studying the regenerator in question. It was composed of a furnace with two interconnected chambers, a combustion chamber, and a regeneration chamber. The air supply of the test unit was provided by two VVD-8 high-pressure fans with 20 kw electric motors. The slit radiation regenerator with a heating surface of 21.6 $\rm m^2$, intended for use with soaking pits and with a rated capacity of 2500 m3/hour of air heated to a temperature of up to 700° was constructed of 5.5 mm EI417 steel sheet. The investigations were carried out at different temperatures of the flue gases entering the regenerator (varying between 800 and 1300°) with unilateral and bilateral heating and an uniflow direction of the flue gases and of the air. A counterflow arrangement of air and the flue gases at gas temperatures of 800, 900, and 1000° with bilateral heating was also investigated. V. A. Epshteyn, Engineer, and I. I. Kharybin assisted in the experiments. It was found that the regenerator tested operates with a high thermal efficiency within a wide range of gas temperature.

Card 2/3

Investigation of the Performance of a Slit Radiation SCV/163-59-1-17/50 Regenerator

The investigations substantiated the conclusions drawn from theoretical considerations concerning the high efficiency of such a regenerator with bilateral heating. The engineering data obtained for a wide range of flue gas temperature (from 800 to 1300°) indicate the advantages of using such regenerators in this range of flue gas temperatures. The experiments at the test stand are at present continued. The problem of the optimum flue gas distribution between the inside and the outside duct is investigated. The Dnepropetrovsk Institute of Metallurgy and the Stal'proyekt are at present engaged in developing a multi-tube type of radiation regenerators. There are 5 figures, 1 table, and 2 Soviet references.

ASSOCIATION:

Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk

Institute of Metallurgy)

SUBMITTED:

June 27, 1958

Card 3/3

ALEKSEYEV, B.G.; KRAVTSOV, A.F. kand.tekhn.nauk; POLETAYEV, B.L., kand.tekhn.nauk

Closed system for automatic flame tongue reversing in regernerative soaking pits. Avtom. i prib. no.1:12-15 Ja-Mr '63. (MIRA 16:3)

1. Dnepropetrovskiy metallurgicheskiy institut (for Alekseyev, Kravtsov). 2. Metallurgicheskiy zavod imeni Dzerzhinskogo (for Poletayev) (Furnaces, Heating) (Electronic control)

801/115-59-5-32/32

AUTHORS:

Rozengard, Yu.I. and Poletayev, B.L., Candidates of

Technical Sciences

TITLE:

An Experimental Chamber for Studying Elements of Metallurgical Furnaces (Opytnaya kamera dlya issledovaniya

elementov metallurgicheskikh pechey)

PERIODICAL:

Stal', 1959, Nr 3, p 287 (USSR)

ABSTRACT:

An experimental chamber for the investigation of recuperators, burners and thermotechnical processes taking place in furnaces was constructed in 1957 at the Dzerzhinskiy Works. During 1957-1958, investigations of the operation of a slit recuperator designed at the works under conditions of direct and counter-current flow conditions and experiments on non-oxidising heating of metal were carried out. At present, testing of tube radiation recuperators designed by the Dnepropetrovsk Metallurgical Institute, Dzerzhinskiy Works and Ukrgipromis being carried out. It is planned to test some new

designs of burners for soaking pits.

Card 1/2

CIA-RDP86-00513R001341720011-1 "APPROVED FOR RELEASE: 06/15/2000

SOV/133-59-3-32/32 An Experimental Chamber for Studying Elements of Metallurgical

Furnaces

ASSOCIATIONS:

Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute) Zavod im. Dzerzhinskogo (im. Dzerzhinskiy Works)

Card 2/2

USCOMM-DC-61,046

CIA-RDP86-00513R001341720011-1" **APPROVED FOR RELEASE: 06/15/2000**

CHEN, N.G.; FEDOROV, O.G.; FEVRALEV, K.D.; POLETAYEV, B.L.; ZAIKIN, I.P.

Study of the external corrosion of the pipes of a waste-heat boiler. Prom. energ. 15.no.8:30-34 Ag '60. (MIRA 15:1) (Boilers—Corrosion) (Steampipes—Corrosion)

GOL'DFARB, E.M., inzh.; TAYTS, N.Yu., inzh.; LEGOVETS, L.V., inzh.; SOROKIN, A.A., inzh.; CHECHURO, A.N., inzh.; FOLETATEV, B.L., inzh.; YAROSHEVSKIY, N.D., inzh.

Increasing the heat capacity of blast furnace air preheaters.

Blul.TSIICHM no.4:9-13 '61. (MIRA 14:10)

(Blast furnaces)

(Air preheaters)

ALEKSEYEV, B.G.; KRAVTSOV, A.F.; YEVICH, A.D.; KAPLUNSKIY, 1.A.;
POLETATEV, B.L.; TARASOV, K.K.

Automatic control of valve reversol in regererative soaking pits. Met. i gornorud. prom. no. 2:34-35 Mr-Ap '64. (MIRA 17:9)

POLFTAYEV, B.L.; RESHETNYAK, I.S.; SHAFOVALOV, N.A.; SORGKIN, A.A.

Using an accumulative ceramic recuperator in soaking pits at the Dzerzhinskii Plant. Stal' 24 no.2;180-181 F '64. (MIRA 17;9)

1. Zavod im. Dzerzhinskogo i Eneprodzerzhinskiy metallurgicheskiy zavod-vtuz.

ACC NR: AP7011832

SOURCE CODE: UR/0360/66/000/004/0074/0078

AUTHOR: Azerbayev, I. N.; Sarbayev, T. G.; Gafurov, Ye. K.; Bazalitskaya, V. S.; Poletayev, E. V.

ORG: none

TITLE: Dialkyl esters of alpha-phenoxyacetoxyalkenylphosphonic acids

SOURCE: AN KazSSR. Izvestiya. Seriya khimicheskikh nauk, no. 4, 1966, 74-78

TOPIC TAGS: aldehyde, phosphonic acid, ester

AND HER SEE THE PROPERTY OF TH

SUB CODE: 07

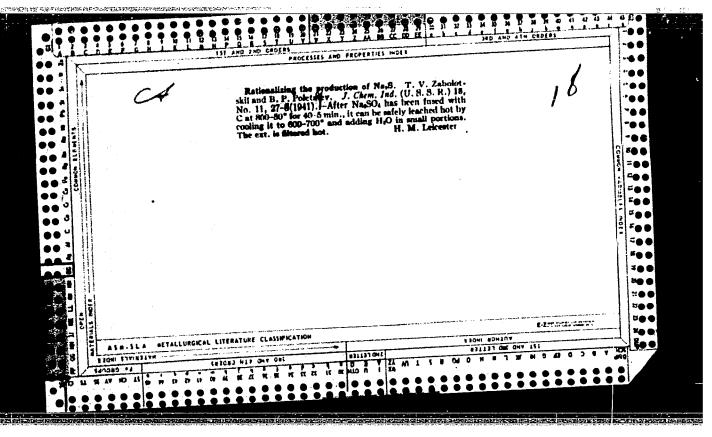
ABSTRACT: The authors studied condensation of dimethyl-, diethyl-, dipropyl- and dibutylphosphites with unsaturated aldehydes. Dialkyl esters of Q-phenoxyacetoxyallyl- and crotylphosphonic acids are synthesized.

Orig. art. has: 4 formulas. JPRS: 40,351/

Card 1/1

UDC: 547.27/37:542.91

1428



LAVROVA, L., kand. tekhn. nauk; KRYLOVA, V., inzh.; POLETAYEV, G.

是这种,这里,这里,这里是这种的一个,这里还是是这里是这些的人,这是这些是这种的一个,这是这些一种,这种是是<mark>是是是是是是是是是是是是是是是是是是是是是是是是是是</mark>

Innovations in the production of dry smoked sausage. Mias. ind. SSSR 29 no.6:18-19 '58. (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti.
(Sausages)

CIA-RDP86-00513R001341720011-1

. Country : USSR

Category: Human and Animal Physiology. Neuronuscular

Physiology.

Abs Jour: RZhDiol., No 19, 1958, 89145

Author : Zefirov, L.N.; Poletayev, G.I.

: Is-kafedry normal now fiziologii Kasanskogo meditsinskogo inst. : Some Electrophysiological Data on the Contracture of Inst

Title

the Anterior Abdominal Wall (Defense Musculaire).

Orig Pub: Byul. experim. biol. is meditsiny, 1956, 41, No 3,

13-18

Abstract: Action currents of the rectus muscle of dogs (without

anesthesic) in contracture, produced by intra-abdominal injections of 1-3 ml of turpentine, were registered by electrodes placed 2-5 cm apart. Originally a spontaneous impulsation occurred in the muscle,

: 1/4 Card

T-80

CIA-RDP86-00513R001341720011-1" **APPROVED FOR RELEASE: 06/15/2000**

Country: USSR

Human and Initial Physiology. Neuromuscular Category:

Physiology

Abs Jour: RZhBiol., No 19, 1958, 89145

with a frequency up to 80 cycles/second and with an amplitude averaging 0.1 mv. Within 1-2 minutes following the administration of turpentine a phase of motor agitation of the animal took place, and the periodic impulsation increased. Within 3-5 minutes it became continuous with a constant frequency of 200-300 cycles/second, and an camplitude of 0.1-0.2 and 0.8-1 5 mv; the muscle passed into a condition of constant excitation. Within 20-30 ninutes the impulsation and the tension of the muscle began to weaken, and the restoration lasted a few hours. Following unilateral removal of the

: 2/4 Card

CIA-RDP86-00513R001341720011-1" APPROVED FOR RELEASE: 06/15/2000

Country :

ussr

Category:

Human and Aminal Physiology. Neuromuscular

Physiology

Abs Jour: RZhBiol., No 19, 1958, 89145

abdominal sympathetic ganglia the intensity of the impulsation on the operated side was lower than on the intact side. In spinal animals the contracture following administration of turpentine developed more rapidly and intensively; the amplitude of the action currents reached 1.2-1.8 EW Stimelation of the central ends of sensitive nerves suppressed the contracture and stopped the impulsation. The contracture did not reach the degree of maximal tetanus; the tension and impulsation of the recti muscles, under condition of contracture could be intensified 2-3 times with notion. The author notes the duration of the contraction and the infatiguability

Card

: 3/4

T-81

ZUBAIROV, D.M.; POLETAYEV, G.I.; TIMERBAYEV, V.N.

Relation of blood coagulation to the electrical potential of the blood vessel wall. Fiziol. zhur. 50 no.2:220-224 F '64.

(MIRA 18:2)

1. Fiziologicheskiy otdel TSentral'noy nauchno-issledovatel'skoy laboratorii Gosudarstvennogo meditsinskogo instituta, Kazan'.

ZEFIROV, L.N.; POLETAYEV. G.I.

Some mechanisms of reflex contracture of the anterior abdominal wall.
Fiziol.zhur. 44 no.1:45-51 Ja '58 (MIRA II:3)

1. Kafedra normal'noy fiziologii Meditsinskogo instituta, Kazan.
(ABDOMINAL WALL, physiology,
contraction mechanism (Rus)

POLETAYEV, G.I.

Role of acetylcholine in the development of tetanized single response and trace processes in the nerve trunk in cold-blooded animals [with summary in English]. Biul.eksp.biol. i med. 45 no.6:25-29 Je *58 (NIRA 11:8)

1. Is kafedry normal'noy fiziologii (zav. - doktor med. nauk I.N. Volkova) Kazanskogo meditsinskogo instituta (dir. - dots. R.A. Vyaselev) Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim).

(ACETYLCHOLINE, physiology.

in develop. of tetanized single response & trace processes in nerve trunk in frog (Rus))

POLITAYEV, G.I., Cond Med Sci -- (diss) "The importance of cetyl-choline in the function of neural conductors." Mazan', 1059. 11 pp (Min of Health RSFSR. Kazan' State Med Inst). 200 copies (KL, 37-59, 111)

77

ZEFIROV, L.H.: POLETAYEV, G.I.

Effect of 2-methylnaphthoquinone on various elements of the nerve-muscle apparatus in cold-blooded animals. Biul.eksp. biol. 1 med. 47 no.6:68-72 Je 159. (MIRA 12:8)

1. Iz kafedry fiziologii (zav. - doktor med.nauk I.N.Volkova) Kazanskogo meditsinskogo instituta. Predstavlena deystvitelnym chlenom AMN SSSR V.N.Chernigovskim. (VITAMIN K, eff.

on nerve-musc. prep. (Rus))
(MERVE MUSCLE PREPARATION, eff. of drugs on vitamin K (Rus))

ZEFIROV, L.M.; POLETATEV, G.I.

Effect of pancreatectomy and of acetylcholine on the peripheral reflex arch in cold-blooded animals. Biul.eksp.biol. i med. 48 no.7:3-6 Jl '59. (MIRA 12:10)

1. Iz kafedry fiziologii (zav. - doktor med.nauk I.N.Volkova)
Kazanskogo meditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR V.M.Chernigovskim.

(PANCHEAS - physiology)

(ACETTLEHOLINE - pharmacology)

(MYONEURAL JUNCTION - physiology)

POLETAYEV, G. N.

"'Dynamics of water-moderated water-cooled reactors at accidental drop of coolant circulation."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

POLETAYEV, G.S.

137-1958-1-81

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 15 (USSR)

AUTHORS: Panterovskiy, K. M., Poletayev, G. S.

TITLE: Remote Control of Dressing Plant Equipment (Distantsionnoye

upravleniye mekhanizmami obogatitel nykh fabrik)

PERIODICAL: Kolyma, 1956, Nr 9, pp 29-31

ABSTRACT: A system of remote control of the equipment in the milling

portion of the plant, with partial interlocking and two-way trans-

mission of information, is proposed.

A. Sh.

1. Ores--Processing--Equipment 2. Rolling mills--Control

Card 1/1

Briquetting and coking coal ore mixtures in zinc pyrometallurgy.

Briquetting and coking coal ore mixtures in zinc pyrometallurgy.

TSvet. met. 29 no.10:39-46 0 *56.

(Zinc--Metallurgy)

SOV/137-58-7-14601

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 94 (USSR)

AUTHORS: Shcherlin, I.D., Alyushin, Ye.I., Poletayev, G.S.,

Rabicheva, L.M., Slonimskiy, B.I.

TITLE: Electrothermic Recovery of Zinc at the Belovo Zinc Plant

(Elektrotermicheskoye polucheniye tsinka na Belovskom tsin-

kovom zavode)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 21, pp 20-23

ABSTRACT: A pilot-plant installation having an electrothermic furnace of 150 kw power was employed to melt sintered Zn concen-

trates of the following % composition: Zn 57-60, Pb 0.7-1, Cu 2-2.3, Fe 6-9.4, Cd 0.1-0.15, CaO 0.9-1.9, MgO 0.7-0.8, SiO2 3.4-4.7, S 0.3-1. The charge (composition of the raw mix: 60 kg sinter, 12-13.5 kg coke breeze with 12-20% moisture and 14-20% ash, and 5 kg calcined lime) was mixed in a drum mixer, calcined for 3 hours at 800-850°C in a reducing atmosphere, 15-20 kg return dross was added to it, and the whole was charged into the furnace through a bell-shaped

sealed charging device. Smelting was at 68 v and 2250-2500

Card 1/2 amps with graphited electrodes immersed 200 mm into the slag,

SOV/137-58-7-14601

Electrothermic Recovery of Zinc at the Belovo Zinc Plant

the bath depth being 400 mm and the slag temperature 1350-1400°. Optimum process conditions were assured in reducing the basic quantity of Fe and the formation of Fe-Cu alloy in which the noble metals were concentrated. Slag was tapped once each shift, the Fe-Cu alloy once every 10-20 days. The Zn gases and fumes were taken off the furnace through an aperture in the sidewall and an inclined gas line in the condenser (C), lined with magnesite brick in its lower portion and a floor made of carbon blocks. The temperature in the gas line was sustained at 800-900° and in the C at 600-650°. The gases left the C at 350-4000 and proceeded to a scrubber irrigated with water. The extraction of Zn as metal having the following inclusions (%), Pb 1-1.5, Cd 0.1-0.13, Fe 0.1-0.5, Cu 0.01-0.02, was 60-70%. 15-20% of the Zn was trapped in the scrubber as blue powder enriched with up to 0.6% Cd. Up to 30% of the Zn was in the returns in the form of dross precipitated in the C. The dross and blue powder contained 88-93% Zn. When the lower portion of the furnace was lined with magnesite and cooled with water to form a lining hardened on the wall, a furnace campaign lasted > 2 months. Losses of Zn in the slags came to 1.5-6%, and recovery of the Cu in the alloy was 90-98%. Ye.Z.

2. Electric furnaces--Applications 1. Zinc--Recovery

Card 2/2

SHCHERLIN, I.D.; ALYUSHIN, Ye.I.; POLETAYEV, G.S.; RABICHEVA, i.M.;

Studying the electrothermal method of preparing zinc and metal powder at the Belovo Zinc Plant. Sbor. nauch. trud. GINTSVETHET (MIRA 14:4) no.15:298-309 159.

(Belovo (Kemerovo Province)—Zinc—Electrometallurgy)

RABICHEVA, L.M.; SLONIMSKIY, B.I.; LAZAREV, V.I.; ALYUSHIN, Ye.I.;
POLETAREV, G.S.; Prinimali uchastiye: TARASOV, Ye.I.;
AFONIN, P.I.; SYROWEGINA, K.V., nauchnyy sotrudnik

Electrothermal method of obtaining zinc dust. Sbor. nauch.
trud. Gintsvetmeta no.18:165-174 '61. (MIRA 16:7)

1. Nachal'nik elektrotermicheskoy ustanovki Belovskogo tsinkovogo
zavoda (for Tarasov). 2. Starshiy master elektrotermicheskoy
opytnoy ustanovki Belovskogo tsinkovogo zavoda (for Afonin).
3. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh
metallov (for Syrovegina).

(Zinc-Electrometallurgy)

RABICHEVA, L.M.; IAZAREV, V.I.; ALYUSHIN, Ye.I.; POLETAYEV, G.S.;
Primimali uchastiye: TARASOV Ye.I.; AFONIN, P.I.; SYROVEGINA,
K.V., nauchnyy sotrudnik; LEVIN, I.Kn., nauchnyy sotrudnik

Obtaining liquid zinc in the electric smelting process. Sbor.
nauch. trud. Gintsvetmeta no.18:175-186 '61. (MIRA 16:7)

1. Nachal'nik elektrotermicheskoy opytnoy ustanovki Belovskogo
tsinkovogo zavoda (for Tarasov). 2. Starshiy master elektrotermicheskoy opytnoy ustanovki Belovskogo tsinkovogo zavoda (for Afonin).
cheskoy opytnoy ustanovki Belovskogo tsinkovogo zavoda (for Afonin).
3. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh
metallov (for Syrovegina, Levin).

(Zinc-Electrometallurgy)
(Liquid metals)

S/136/63/000/002/001/006 E021/E483

AUTHORS:

Pinayev, A.K., Fel'metsger, V.I., Poletayev, G.S.,

Marchenko, V.G.

TITLE:

Electrothermic method of zinc smelting

PERIODICAL: Tsvetnyye metally, no.2, 1963, 25-30

This new method was developed by Gintsvetmet and used in the reconstruction scheme of the Belovskiy tsinkovyy zavod (Belovo Zinc Plant). It is claimed that 96% recovery is attainable with this process as compared with 89 to 93% obtained in the horizontal retorts, and that the process is considerably cheaper. Field trials on 1800 kW pilot plant have shown that the productive capacity of the plant is 1.5 times higher than that of a distillation furnace and 4 times higher than that of a vertical The information given in the paper includes: flow-sheet of the process; description of the plant and various stages of the process; composition of the raw materials and intermediate and final products; distribution of zinc and other The method requires metals at various stages of the process. careful control of the particle size of the agglomerate, the best results being obtained with material containing 90 to 95% of the Card 1/2___

Electrothermic method ...

S/136/63/000/002/001/006 E021/E483

1 to 14 mm fraction with no more than 5 to 15% of the 1 to 7 mm fraction. Before being charged in the reduction furnace, the agglomerate is preheated to 750-800°C in a rotary roaster. Smelting is done in a 7.4 x 4.6 x 4.3 m electric furnace, operated under a pressure of 4 to 6 mm H₂O and supplied through two parallel step-down transformers. Losses of zinc in the slag are independent of its silica content but increase with increasing iron oxide content and decrease as the calcium oxide content in the slag increases; the optimum composition of the slag is 7 to 12% FeO, 30 to 32% SiO₂ and 30 to 32% CaO. Condensation is carried out in a jet-type condenser equiped with two graphite stirrers; these are used to produce a mist of molten zinc which greatly facilitates condensation. The optimum temperature of the molten zinc bath in the condenser is 520 to 550°C. There are 5 figures and 4 tables.

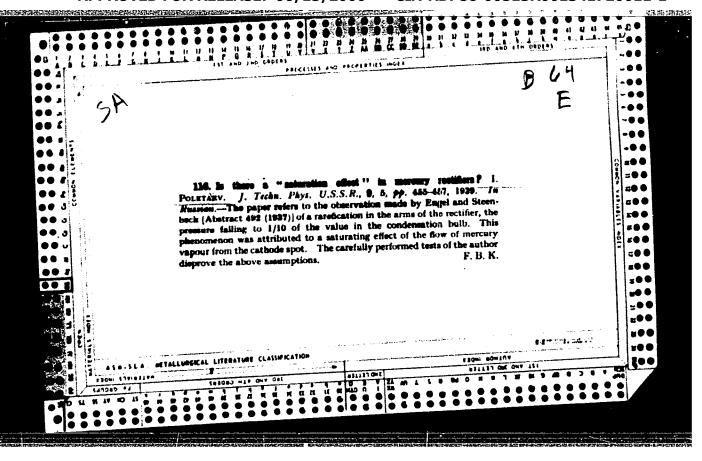
Card 2/2

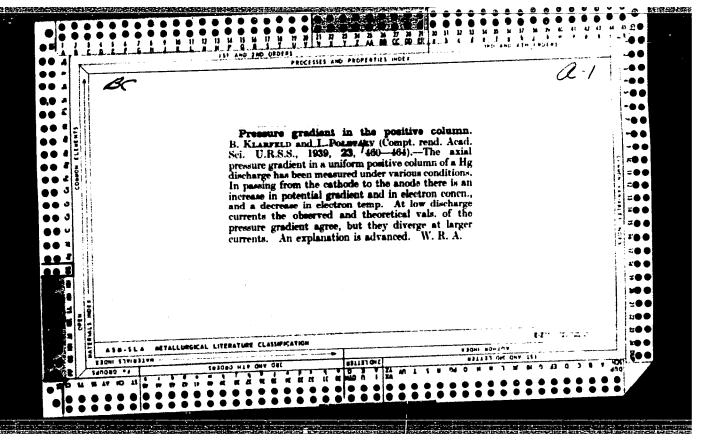
POLETAYEV, I.

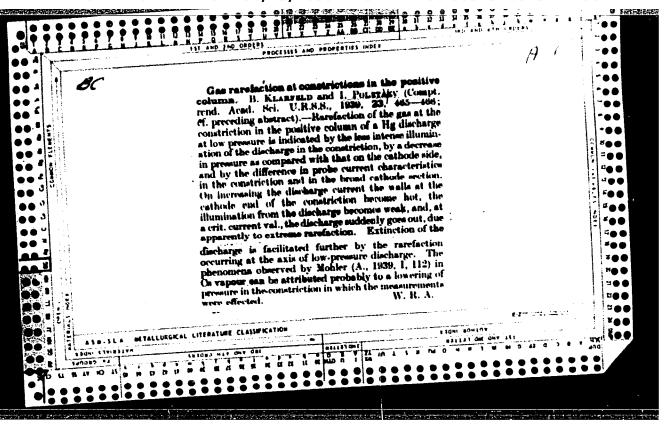
Mbr., All-Union Electrotechnical Inst., Moscow, -1939-.

"Does there Exist the Sucking Action in Mercury Arc

Rectifiers", Journal Phys., 1, No. 4, 1939.







PolietAyAv, I.

107-57-6-50/57

AUTHOR: Poletayav, I.

TITLE: The Book that Should be Published (Kniga, kotontyu sleduyet izdat')

PERIODICAL: Radio, 1957, Nr 6, p 57 (USSR)

ABSTRACT: A short review of the book, "Electronic Computers, Principles and Applications," T. E. Ivall, editor; a Wireless World publication, London, New York, 1956. The reviewer closes his review with this remark: "Its early translation in Russian is desirable. There is no such book in Soviet popular literature; it is undoubtedly needed."

AVAILABLE: Library of Congress

Card 1/1

"On Cybernetics," Trudy tret'yego Vsesoyuznogo matematicheskogo s"yezda / Proceedings of the Third All-Union Mathematics Congress/, Vol. II. Brief outline of survey and sectional papers, Publishing House of the Academy of Sciences USSR, Moscow, 1956, Pages 76 - 77.

PHASE I BOOK EXPLOITATION

1096

Signal; o nekotorykh ponyatiyakh kibernetiki (The Signal; On Certain concepts of Cybernetics) Moscow, Izd-vo "Sovetskoye radio," 1958. 403 p. No. of copies printed not given.

Ed.: Groznova, V.L.; Tech. Ed.: Koruzev, N.N.

PURPOSE: This book is intended for readers with some technical background. Passages containing mathematics are so arranged that they may be omitted by readers without the appropriate background.

COVERAGE: The book describes in semi-popular form some of the basic features of cybernetic systems and natural information mechanisms in living organisms. The author examines the concepts of the signal, information, and information quantity. He discusses the effect of random events on signal distortion, and the relation between informational and physical entropy. He briefly describes the processes of signal transmission in communication channels and in the nervous system, the principle of a feedback system, and the construction and operation of calculating machines used for card 1/7

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341720011-1

1096 The Signal; and the concepts (Cont.)

The author further explains the operation of simple and complex automatic machines (robots) and describes certain features of the nervous system solving mathematical and logical problems. which lead to conclusions about the signal character of its processes. He discusses separately the behavior of man and machine with relation to competition or games and examines the possibilities of self-organization systems. In conclusion, he outlines the basic differences between machines and living creatures and discusses the prospects of the development of complex automatic machines. He thanks A.I. Berg, Academician, A.A. Lyapunov, A.I. Kitov, L.V. Krushinskiy, and M.O. Gertsberg for their help. There are 31 references, of which 21 are English, 9 Soviet and 1 French.

card 2/7

he Signal; On Centain Concepts (Cont.) . 1096	
ABLE OF CONTENTS:	5
Preface Frequeering and Cybernetics	9 11 22
1. Control 2. Information	25 28
Ch. 2. The Signal 1. Isomorphism 2. Formation of a signal and the reaction 3. Signals create signals 4. The completeness of description 5. Discrete and continuous signals	34 36 37 40
a Aggident	44 47
1. Random events 2. Probability 3. Probability distribution. Mathematical expectation and dispersion	•
Card 3/7	

The Signal; On Certain Concepts (Cont.) 1096	58 62
4. Noise 5. Probability in physics. Entropy Ch. 4. Quantity of Information	70 70 75 80
1. Information quantity 2. Measure of information quantity 3. Code 4. Rate of transmission	80 84 89 92 94
6. Shannon's theorem 7. Informational and physical entropy. Organization	102 103 110
1. Modulation 2. Distortions 3. Spectrum and pass band	113 116 119
3. Spectrum and pass of a Selection channel 5. Example of a communication channel 6. The working of a nerve fiber	124
Card 4/7	

The Signal; On Certain Concepts (Cont.) 1096 Ch. 6. Feedback. Control 1. Performance of control systems 2. Feedback in living organisms 3. Reflexes	128 137 141 150
Ch. 7. The Signal in a Machine 1. Analog computers 2. Discrete counting 3. Discrete computers 4. Punched-card computing machines 5. High-speed electronic computers 6. Control and memory 7. Basic features of electronic computers 8. Theoretical logic and algebra in relay systems 9. Relay systems	164 169 172 176 180 193 203 206 212 218
Ch. 8. The Robot 1. Cybernetic toys 2. Robots and language 3. Automatic translation 4. Other robots Card 5/7	233 245 258 267

The Signal; On Certain Concepts (Cont.) . 1096	455
The Signal; On Certain other	275 277
	283
Ch. 9. Thought 1. Man operating a machine nervous system	293
1. Man operating a machine 2. Structure of the nervous system 2. Structure of the brain	307 309
3 MOLKITIE OF ALL	309
4. Emotions in the brain	315
5. Signal processes in the fack? 6. What does the machine lack?	221
6. What does one	33. 1 333
Ch.10. Games on the theory of games	334
Notions of the	336
2. Strategy	342 347
2. Strategy 3. The payoff function 4. Mixed extension of a game	341 350
5. Random moves	354
5. Random moves 6. Machines playing games of strategy 6. Machines playing games	
	360
which May Outthink Its Creator	362
7. More about The Robot Which May Outthink Its Creator Ch.ll. The Robot Which May Outthink Its Creator L. Self-organizing systems	362 367 376
	210
2. Development of self-organization 3. Excessiveness of organization	
Card 6/7	

The Signal; On Certain Concepts (Cont.) 1096 Ch. 12. The Big Robot 1. What next? 2. The possibilities of cybernetic machines Conclusion Bibliography AVAILABLE: Library of Congress JP/atr 2-21-59	380 380 385 395 401	
2-21-59		
Card 7/7		

CIA-RDP86-00513R001341720011-1 "APPROVED FOR RELEASE: 06/15/2000 。 第1867年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1

POLETAYEV, I. A.

"On the Possibility of Simulating Processes of Supraliminal Inhibition With the Aid of Elementary Electronic Circuits" (20 February 1956).

Paper presented at the Seminars on Cybernetics at Moscow University during the 1955-56 school year.

So: Problemy Kibernetiki, No. 1, 1958. pp. 265-66

POLETAYEV. I. A.

"Review of Morse and Kimball's book Operations Research Methods" (28 September 1956).

Paper presented at the Seminars on Cybernetics at Moscow University during the 1956-57 school year.

Problemy Kibernetiki, No. 1, 1958

CIA-RDP86-00513R001341720011-1 "APPROVED FOR RELEASE: 06/15/2000

POLETAYEV, I. A.

"Report on the Material in the Second Part of His Book Signal (Signal)" (22 February 1957).

Paper presented at the Seminars on Cybernetics at Moscow University during the 1956-57 school year.

Problemy Kibernetiki, No. 1, 1958

S/078/63/008/001/017/026 B189/B101

AUTHORS: Samuseva, R. G., Plyushchev, V. Ye., Poletayev, I. F.

TITLE: Phase diagrams of the systems Na₂CrO₄-Rb₂CrO₄ and Na₂CrO₄-Cs₂CrO₄

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 8, no. 1, 1963, 167-171

TEXT: 31 Na₂CrO₄-Rb₂CrO₄ and 26 Na₂CrO₄-Cs₂CrO₄ mixtures of differing composition were subjected to thermal analysis. The homogenization of the melts was performed by cooling down the mixtures very slowly to room temperature in the furnace (14 - 16 hours). The phase diagrams for Na₂CrO₄-Rb₂CrO₄ (Fig. 1), and for Na₂CrO₄-Cs₂CrO₄ (Fig. 2) were plotted from the analytical data. The assumed existence of analogies between the binary systems of chromates and of sulfates, due to the nearly equal ionic radii of CrO₄ (3.00 Å) and So₄ (2.95 Å), was confirmed. There are 2 figures and 3 tables.

Card 1/4

S/078/63/008/001/017/026 B189/B101

Phase diagrams of the ...

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im.

M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED: April 16, 1962

Fig. 1. Phase diagram of the system Na2Cr04-Rb2Cr04.

Legend: (1) mole%.

Fig. 2. Phase diagram of the system Na2CrO4-Cs2CrO4.

Legend: (1) mole%.

Card 2/47

SAMUSEVA, R.G.; PLYUSHCHEV, V.Ye.; POLETAYEV, I.F.

Phase diagrams of the systems Na_CrO_4 - Rb_CrO_ and Na_CrO_4 - Cs_CrO_6. Zhur.neorg.khim. 8 no.1:167-171 Ja '63. (MIRA 16:5)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova. (Alkali metal chromates) (Thermal analysis)

WAKIN, S.A.: POLETAYEV, I.F.

Measuring complex resistances by the feeder reflectoneter.

Radiotekhnika 13 no. 7:76-79 J1 '58.

1. Deystvitel'my chlen Vsesoyuznogo nauchao-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S.Popova(for Vakin).

(Radio measurements)

PLYUSHCHEV, V.Ye.; SAMUSEVA, R.G.; POLETAYEV, I.F.

Thermal analysis of the systems Na₂SO₄ - Rb₂SO₄ and Na₂SO₄ - Cs₂SO₄. Zhur.neorg.khim. 7 no.4:860-865 Ap '62. (MIRA 15:4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. (Alkali metal sulfates) (Thermal analysis) Lomonosova.

CIA-RDP86-00513R001341720011-1" APPROVED FOR RELEASE: 06/15/2000